"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ROGANOV, S.G., kand.tekhn.nauk.

On using E.K. Mazing's equations to determine the coefficient of residual gases. Energomashinostroenie 3 no.12:29-30 D '57. (MIRA 11:1)

(Combustion)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ROGANOV, S.G., kandidat tekhnicheskikh nauk

Application of dynamic phenomena of gases to the exhaust systems of two-stroke truck engines. [Trudy] MVTU no.25:66-82 '54.(MLRA 7:10)
(Motor trucks--Fuel systems)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ROGANOV, V.A.

Standardization, recording, and accounting of work in a student brigade. Politekh.obuch. no.9:20-22 S '59. (MIRA 12:12)

1. Chaadayevskaya shkola Gorodishchenskogo rayona Penzenskoy oblasti.
(Gorodishche District--Education, Cooperative)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

KOSTIN, V.Ye.; ROGANOV, V.B.

Optical and mechanical instrument for measuring diamond draw-plate slits. Izm. tekh. no.3:37-39 My-Je '55. (MLRA 8:9)
(Engineering instruments) (Wire)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

OLEFIR, F.F., kand.tekhn.nauk; ROGANOV, V.F., inzh.; SILAYEV, E.F., inzh.

Electric drive of a winder with an astatic band tension regulator. Elektrichestvo no.5:23-30 My '61. (MIRA 14:9)
(Rolling mills) (Electric driving)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

KALENKO, F.I., inzh.; [illegible], L.E., inzh.; TIMOSHENKO, E.V., inzh.

Automatic control of strip width on a rolling mill. Mekh. i avtom. proizv. 19 no.5:8-9 My '65. (MIRA 18:11)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ROGANOV, V. M. Cand Agr Sci -- "Fertilization and depth of planting of grape grafts in a nursery." Voronezh, 1961 (Min Agr RSFSR. Voronezh Agr Inst). (KL, 4-61, 205)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

R. D. GANOV, U.S.

PAGE 1 BOOK EXPLOITATION SOV/2713

International Conference on the Peaceful Uses of Atomic Energy. 2nd, Geneva, 1958

Doklady sovetskikh uchenykh; poluchenlye i primeneniye izotopov (Reports of Soviet Scientists; Production and Application of Isotopes) Moscow, Atomizdat, 1959. 388 p. (Series: Its: Trudy, vol. 6) 8,000 copies printed.

Eds. (Title page): O.V. Kurtsyov, Academician, and I.I. Sorokin, Corresponding Member, USSR Academy of Sciences; Ed. (Inside book): Z.D. Andreyenko; Tech. Ed.: Z.D. Andreyenko.

PURPOSE: This book is intended for scientists, engineers, physicians, and biologists engaged in the production and application of atomic energy to peaceful uses; for professors and graduate students of higher technical schools where nuclear science is taught; and for the general public interested in atomic science and technology.

COVERAGE: This is volume 6 of a 6-volume set of reports delivered by Soviet scientists at the Second International Conference on the Peaceful Uses of Atomic Energy held in Geneva from September 1 to 13, 1958. Volume 6 contains 32 reports on: 1) modern methods for the production of stable radioactive isotopes and their labeled compounds, 2) research results obtained with the aid of isotopes in the field of chemistry, metallurgy, machine building, and agriculture, and 3) dosimetry of ionizing radiation. Volume 6 was edited by: S.V. Levinskiy, Candidate of Medical Sciences; V.S. Frumkin, Candidate of Chemical Sciences; and V.V. Sedov, Candidate of Medical Sciences. See SOV/2681 for titles of volumes of the set. References appear at the end of the articles.

16. Mikergal', A.V., V.L. Karpov, and V.I. Sinitsyn. Cobalt Sources of High Intensity for Radiative Action (Report No. 2234) 200

17. Omar, H.O., Yu. Ye. Ershler, and V.I. Popov. Gamma Radiation Inside and Outside Extended Sources (Report No. 2008) 211

18. Aglintsev, K.K., M.A. Bak, V.I. Bochkarev, Ya.G. Grachev, Z.V. Yershova, and K.A. Petrzhak. System of Radiometric Measurement of Radioactive Isotopes (Report No. 2007) 227

19. Aglintsev, K.K., V.P. Kastkin, V.V. Mitrofanov, and V.V. Smirnov. Application of Nuclear Spectroscopy Methods to Beta and Gamma-ray Dosimetry (Report No. 2503) 237

20. Baranov, P.S., V.I. Goldanskiy, and V.S. Shpinov. Instrument for Measuring Small Streams of High-energy Neutrons (Report No. 2005) 244

21. Chmelkov, A.A., V.I. Politarpov, and V.A. Kolesnova. Measuring and Analyzing Air Contamination by Low Concentrations of Aerosol Alpha Matters (Report No. 2130) 260

22. Zalmanzon, O.V., V.I. Yonesenskiy, and O.A. Sanitskova. Photosynthesis Studies by Quantitative Radiometric Methods (Report No. 2135) 260

23. Rabotin, Yu.V. and A.V. Krylov. Studying the Transfer, Distribution, and Transformation of Certain Physiologically Active Compounds in Plants (Report No. 2153) 274

24. Omar, I.I., Ye.Ye. Krutina, and A.Ye. Petrov-Spiridonov. Rhythm of Absorption and Secretion in Roots (Report No. 2253) 285

25. Akhromeyko, A.I., and V.A. Shevtsova. Effect of the Atmospheric Microorganisms on the Absorption and Secretion of Phosphorus and Sulfur by the Seedling Roots of Woody Plants (Report No. 2512) 306

26. Ramenov, V.I., and E.D. Fedorova. Absorption of Phosphorus Tracers by Cultivated Plants in Relation to Their Resistance to Cold (Report No. 2313) 315

27. Aleksyev, S.V., A.V. Voynovich, V.A. Nolchanova, and A.V. Eberyanvich. Some Results of Using Radioactive Isotopes for Plant Protection (Report No. 2069) 322

Alloys of Zirconium and Titanium Base by the R-Dimastine Isotope Method (Report No. 2526) 159

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

L 52966-65 EWT(m) Peb DIAAP

ACCESSION NR: AP5010520 UR/0056/65/048/004/1199/1199

AUTHOR: Bobrov, V. D.; Varlamov, V. G.; Grashin, Yu. M.; Dolgoshein, B. A.; Kirillov-Ugryumov, V. G.; Roganov, V. S.; Samoylov, A. V.; Somov, S. V.

TITLE: Capture of negative muons by pure chromium and nickel isotopes

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 48, no. 4, 1965, 1199-1199

TOPIC TAGS: muon, chromium, nickel, muon capture, proton subshell, neutron subshell, muon lifetime, capture rate

ABSTRACT: The authors point out that data on muon capture by nuclei can be used as a tool for the study of the structure of the nucleus, and have therefore inves-

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

the experiments. The total muon capture probability [illegible]

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L 52966-65

ACCESSION NR: AP5010520

the lifetimes of the muons on the K orbit of the corresponding atom. The experimental results by processing the corresponding time distributions with a computer are:

Nucleus:	Cr^{48}	Cr^{50}	Cr^{52}	Cr^{54}	Ni^{58}	Ni^{60}	Ni^{62}
Capture rate 10^5 sec	38,25± ±0,50	34,52± ±0,47	32,97± ±0,45	30,57± ±0,42	61,10± ±1,05	55,62± ±0,97	47,16± ±0,95

A detailed discussion of the results and of the measurement procedure will be published later. Orig. art. has: 1 table.

ASSOCIATION: Moskovskiy inzhenerno-fizicheskiy institut (Moscow Engineering Physics Institute)

SUBMITTED: 26Dec64 ENCL: 00 SUB CODE: NP

NR REF SOV: 000 OTHER: 000

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

Roganov, V.S.

L 52965-65 EWT(m)/I/EWA(m)-2

ACCESSION NR: AP5010519 UR/0056/65/048/004/1197/1199

AUTHOR: Bobrov, V. D.; Varlamov, V. G.; Greshin, Yu. M.; Dolgoshein, B. A.; Kirillov-Ugryumov, V. G.; Roganov, V. S.; Samoylov, A. V.; Somov, S. V.

TITLE: Capture of negative muons by atoms in a chemical compound

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 48, no. 4, 1965, 1197-1199

TOPIC TAGS: muon, muon capture, effective affinity, mesic atom

ABSTRACT: The authors measured the relative probabilities of captured negative muons by atoms in several chemical compounds, with an aim at extracting information necessary for the interpretation of other experiments with muons. The results show that for the compounds investigated (LiCl, CaCl, ZnO, ZnS, and AlCu) the Fermi-Teller Z-law does not describe the experiment satisfactorily. An analysis of the available data shows that compared with the prediction of the Z-law, mesic atoms of the elements which have relatively large electron-affinity energy are produced with some preference. The results show that in most cases the tendency to preferred formation of the mesic atoms of the element with the larger electron affinity

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

L 52965-65

ACCESSION NR: AP5010519

is violated only in five of 31 cases. Four out of the five violations are in compounds of carbon, and this is apparently connected with very complicated spatial configuration of these molecules. The measurement procedure and a detailed discussion of the results will be published later. Orig. art. has: 3 tables.

ASSOCIATION: Moskovskiy inzhenerno-fizicheskiy institut (Moscow Engineering Physics Institute)

SUBMITTED: 26Dec64 ENCL: 00 SUB CODE: NP

NR REF SOV: 001 OTHER: 008

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ROGANOV, V.S.

CHANG RUN-HUA, CHERNOGOROVA, V.A., ROGANOV, V.S., SHIMCHAK, M., YEVSEYEV, V.S.

"Asymmetry in the Angular Distribution of Neutrons Emitted in Mu-Meson Capture in Capture"

report presented at the Intl. Conference on High Energy Physics, Geneva, 4-11 July 1962

Joint Institute for Nuclear Research
Lab. of Nuclear Problems

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ROGANOV, V.S.

86666

9,6150
26.2244

P/045/60/019/006/005/012
B011/B059

AUTHORS: Yeffseyev, W. S., Komarov, W. J., Kusch, W., Roganov, W.S., Tchernogorova, W. A., Szymczak, M.

TITLE: Fast-neutron Scintillation Layer Detector for Measurements Against a Gamma Background

PERIODICAL: Acta Physica Polonica, 1960, Vol. 19, No. 6, pp. 675-682

TEXT: The authors describe a scintillation layer detector with high efficiency for fast neutrons and low efficiency for gamma rays. The layer detector is based upon the difference between the range of protons and electrons of the same energy. The detector is designed for neutron measurements in the energy range between 5 and 20 Mev and consists of 28 layers made of plastic scintillators (on the basis of polystyrene), and is arranged in two sections, one behind the other. In each section, the light from the even layers is directed into two FEU-29 photomultipliers, the light from the odd layers is led into two other FEU-29 photomultipliers.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

86666

Fast-neutron Scintillation Layer Detector for Measurements Against a Gamma Background

P/045/60/019/006/005/012
B011/B059

If the electron energy is sufficiently high so that the electron can pass into the adjacent layer, then both photomultiplier sets (odd and even) will produce pulses simultaneously. The electronic circuit cancels those coincidences and allows only single pulses (produced in any of the photomultipliers) to reach the pulse-height analyzer. In order to characterize the decrease in counting efficiency for neutrons and gamma rays when the coincidence circuit (resolution 0.4μ sec, veto pulse 0.6μ sec) is turned on, the discrimination coefficient (ratio of pulses with coincidence circuit off to pulses with coincidence circuit on, both at the same level of the integral discriminator) is introduced. For neutrons, this coefficient did not exceed 1.5, for gamma quanta, however, it had much higher values. The authors thank N. W. Sizov for help in the work with the Cockroft-Walton-type accelerator, as well as D. K. Akimov and V. A. Zapevailo for their assistance in the construction of the electronic part. There are 6 figures and 6 references: 2 Soviet and 3 US.

ASSOCIATION: Joint Institute of Nuclear Research, Dubna, USSR

SUBMITTED: April 6, 1960

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ROGANOV, V. S.

95

S/089/62/013/006/019/027
B102/B186

AUTHORS: G. T. and M. R.

TITLE: Nauchnaya konferentsiya Moskovskogo inshenerno-fizicheskogo instituta (Scientific Conference of the Moscow Engineering Physics Institute) 1962

PERIODICAL: Atomnaya energiya, v. 13, no. 6, 1962, 603 - 606

TEXT: The annual conference took place in May 1962 with more than 400 delegates participating. A review is given of these lectures that are assumed to be of interest for the readers of Atomnaya energiya. They are following: A. I. Leypunskiy, future of fast reactors; A. A. Vasil'yev, design of accelerators for superhigh energies; I. Ya. Pomeranchuk, analyticity, unitarity, and asymptotic behavior of strong interactions at high energies; A. B. Migdal, phenomenological theory for the many-body problem; Yu. D. Fiveyskiy, deceleration of medium-energy antiprotons in matter; Yu. M. Kogan, Ya. A. Iosilevskiy, theory of the Mössbauer effect; M. I. Ryazanov, theory of ionization losses in nonhomogeneous medium; Yu. B. Ivanov, A. A. Nukhadze, h-f conductivity of subcritical plasma;

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

36

S/089/62/013/006/019/027
B102/B186

Nauchnaya konferentsiya...

Ye. Ye. Lovetskiy, A. A. Rukhadze, electromagnetic waves in nonhomogeneous plasma; Yu. D. Kotov, I. L. Rozental', the origin of fast cosmic muons; Yu. M. Ivanov, muon depolarization in solids; V. G. Varlamov, Yu. M. Grashin, B. A. Dolgoshein, V. G. Kirillov-Ugryumov, V. S. Roganov, A. V. Samoylov, μ^- capture by various nuclei; V. S. Demidov, V. G. Kirillov-Ugryumov, A. K. Ponosov, V. P. Protasov, F. M. Sergeyev, scattering of π^- mesons at 5 - 15 Mev in a propane bubble chamber; S. Ya. Nikitin, M. S. Aynutdinov, Ya. M. Selektor, S. M. Zombkovskiy, A. F. Grashin, muon production in π^-p interactions; B. A. Dolgoshein, spark chambers; N. G. Volkov, V. K. Lyapidevskiy, I. M. Obodovskiy, study of operation of a convection chamber; K. G. Finogenov, production of square voltage pulses of high amplitudes; G. M. Aleksakov, problems of color vision; V. K. Lyapidevskiy, relation between number of receivers and number of independent colors; Ye. M. Kudryavtsev, N. N. Sobolev, N. I. Tisengauzen, L. N. Tunitskiy, F. S. Fayzulov, determination of the moment of electron transition of oscillator forces and the widths of the Schuhman-Runge bands of molecular oxygen; B. Ye. Gavrilov, A. V. Zharikov, V. I. Rayko, decomposition of the volume charge of intense ion beams; Ye. A. Kramer-Ageyev, V. S. Troshin, measurement of neutron spectra; G. G. Doroshenko, new methods of fast-neutron recording; V. I. Ivanov, dosimetry terminology; R. M. Voronkov,

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

BOBROV, V.D.; VARLAMOV, V.G.; GRASHIN, Yu.M.; DOLGOSHEIN, B.A.; KIRILLOV-UGRYUMOV, V.G.; ROGANOV, V.S.; SAMOYLOV, A.V.

Use of a threshold Cherenkov counter in separating π - and μ - mesons in meson beams. Prib. i tekh. eksp. 8 no.3:55-57 My-Je '63. (MIRA 16:9)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

L 22404-66 EWP(e)/EWT(m)/T WH
ACC NR: AP6006791 SOURCE CODE: UR/0386/66/003/001/0003/0004

AUTHOR: Babayev, A. I.; Balats, M. Ya.; Myasishcheva, G. G.; Obukhov, Yu. V.; Roganov, V. S.; Firsov, V. G.

ORG: Institute of Theoretical and Experimental Physics (Institut teoreticheskoy i eksperimental'noy fiziki)

TITLE: Observation of atomic muonium in crystalline quartz

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 1, 1966, 3-4

TOPIC TAGS: quartz, muon, positron, angular distribution, spin, magnetic moment, relaxation process

ABSTRACT: The asymmetry coefficient (c') in the angular distribution of the positrons from the decay of mesons stopped in crystalline quartz at room temperature was measured in the meson beam of the OIYaI synchrocyclotron with the aid of apparatus used to observe μ^+-meson spin precession in a magnetic field. Four cycles of the sinusoidal precession curve, with a frequency corresponding to the magnetic moment and spin of the μ^+ meson, were traced at a magnetic field intensity 50.0 ± 0.3 oe for ~6 μsec after the stopping of the μ^+ meson in the target. The asym-

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ACC NR: AP6006791

metry coefficient corrected for the energy spectrum of the emitted positrons, for the counter geometry, and for the beam polarization was equal to $c' = 0.065 \pm 0.006$ (the total number of μ^+ mesons stopped in the target was 4×10^6, and the product of the solid angle by the counter efficiency was ~1/30). At a magnetic field intensity 2.70 and 1.35 oe the obtained precession corresponded to the frequency of revolution of atomic muonium with exponentially damped amplitude and with relaxation time 0.3--0.4 μsec. The experimental asymmetry coefficient, extrapolated to zero time, was $c_0' = 0.09$--0.13 without correction for the beam polarization. A more detailes investigation of the precession of atomic muonium was hindered by the presence of intensity modulation, connected with the fine structure of the accelerator pulse. Work on the investigation of the phenomenon is being continued.

SUB CODE: 20/ SUBM DATE: 03Nov65

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

EWT(m)/T WW

ACC NR: AP6014026

SOURCE CODE: UR/0056/66/050/004/0877/0889

AUTHOR: Babayev, A. I.; Balats, M. Ya.; Myasishcheva, G. G.; Obukhov, Yu. V.; Firsov, V. G.; Roganov, V. S.

ORG: Institute of Theoretical and Experimental Physics (Institut teoreticheskoy i eksperimental'noy fiziki)

TITLE: Experimental investigation of chemical reactions of muonium

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 50, no. 4, 1966, 877-889

TOPIC TAGS: muonium, positron, angular distribution, magnetic field, chemical reaction, atomic muonium, positron distribution

ABSTRACT: The asymmetry coefficients in the angular distribution of positrons emitted in μ-e-decays were measured for a number of compounds and their binary mixtures. The rate constant for interaction between the atomic muonium and matter were computed on the basis of the results obtained. The method of competing [illegible] for parallel reactions was employed with the aim of raising the accuracy of measurements and elucidating the mechanism of the processes. The dependences of the asymmetry coefficients on the magnetic field strength were measured for a number of compounds. The data were discussed within the framework of the chemical reactions with muonium. The authors express their thanks to Academicians A. I. Alikhanov

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

L 36381-66

ACC NR: AP6014026 6

V. A. Lynbimov for their support and interest in this work, V. I. Volkov for assistance with measurements, and A. M. Brodsko, A. O. Vaysenberg, V. I. Gol'dansk, and L. N. Kondrat'yev for valuable comments and useful discussions. Orig. art. has: 11 figures, 2 formulas, and 4 tables. [Based on authors' abstract.] [NT]

SUB CODE: 20, 11/ SUBM DATE: 01Nov65/ ORIG REF: 008/ OTH REF: 013

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

L 01240-67 EWT(m)/T

ACC NR: AT6031145 SOURCE CODE: UR/3138/65/000/388/0003/0028

AUTHOR: Babayev, A. I.; Myasishcheva, G. G.; Obukhov, Yu. V.; Roganov, V. S.; Firsov, V. G.; Balats, M. Ya.

ORG: none

TITLE: Experimental investigation of the chemical reactions of muonium

SOURCE: USSR. Gosudarstvennyy komitet po ispol'zovaniyu atomnoy energii. Institut teoreticheskoy i eksperimental'noy fiziki. Doklady, no. 388, 1965. Eksperimental'noye issledovaniye khimicheskikh reaktsiy myuoniya, 3-28

TOPIC TAGS: muonium, muon chemical interaction, muonium interaction, atomic muonium, assymetry coefficient, angular positron distribution, binary mixture, competing acceptor method

ABSTRACT: Measurements were made of assymetry coefficients in the angular distribution of escaping positrons $\mu^+ - e^+$ for several compounds and their binary mixtures. The results obtained were used to compute the constants of the rate of interaction between atomic muonium and substance. To augment the accuracy of the results and to clarify the mechanism of the process, a method of competing

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L 01240-67

ACC NR: AT6031145

5

acceptors was used for reactions in parallel. The dependence of the coefficient of assymetry on the intensity of the magnetic field was determined for several compounds. The data are discussed from the point of view of the chemical interaction of muonium. The authors thank Academician A. I. Alikhanov and V. A. Lyubimov for their interest in this work, V. I. Volkov for his assistance in carrying out the measurements, and A. O. Vaysenberg and L. N. Kondrat'yev for their helpful evaluations and discussion of the work. Orig. art. has: 4 tables and 11 figures. [SP]
[Based on authors' abstract]

SUB CODE: 07, 20/ SUBM DATE: 15Oct65/ ORIG REF: 006/ OTH REF: 012/

awm

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

86079

18.7500 1416,1555 S/180/60/000/005/030/033
E193/E183

AUTHORS: Agafonov, A.G., Golomolzina, Yu.A., Rogel'berg, I.L., and Shpichinetskiy, Ye.S., (Moscow)

TITLE: Crystallization of Graphite on the Surface of Technical Purity Nickel

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1960, No.5, pp. 223-224

TEXT: The object of the investigation described in the present paper was to determine the causes of the formation of black spots on annealed nickel sheet. To this end, specimens of nickel sheet, containing 0.03-0.10% C, and small quantities of Si, Mg and Mn, subjected to vacuum annealing for 3 hours at 800 °C, followed by cooling at the rates of 2-3, 10-15 and 150-200 °C/min, were studied. The results of electron diffraction analysis showed that the black surface film (estimated to be 10^{-6}-10^{-5} cm thick), formed under these conditions, is pure graphite. Microscopic examination confirmed this finding and revealed that graphite is first precipitated at the grain boundaries and then spreads over the surface. In analogy to the hyper-eutectoid steels, presence

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

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E193/E183

Crystallization of Graphite on the Surface of Technical Purity Nickel

of silicon in nickel intensified the crystallization of graphite. The rate of cooling after annealing had a marked effect on the phenomenon studied. At the cooling rate of 2-3 °C/min, the formation of surface graphite film took place when the carbon content in nickel was $\geq$ 0.04%. When the cooling rate was increased to 10-15 °C/min, the minimum carbon content leading to the formation of the surface graphite film was found to be 0.06%. No graphite film was formed on the surface of specimens that, after annealing, had been cooled at the rate of 150-200 °C/min. Crystallization of graphite on nickel surface can take place also when annealing is carried out in a reducing atmosphere. In this case, graphite is crystallized also from the gaseous phase. It has been shown experimentally that in the absence of carbon in nickel, no formation of the surface graphite film takes place during annealing in a reducing atmosphere. This indicates that when such film is formed under these conditions on nickel

Card 2/3

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S/180/60/000/005/030/033
E193/E183

Crystallization of Graphite on the Surface of Technical Purity Nickel

containing $\geq$ 0.04% C, graphite particles precipitated from the metal act as crystallization nuclei for carbon which condenses from the gaseous phase during cooling.

There are 1 plate (opposite page 222) and 8 references: 4 Soviet and 4 non-Soviet.

SUBMITTED: May 26, 1960

Card 3/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

KIRILLOV-UGRYUMOV, V.G.; KROPIN, A.A.; ROGANOV, V.S.; SAMOYLOV, A.V.

Angular and energy dispersion of π^--mesons in a scattered magnetic field of a six-meter synchrocyclotron. Atom. energ. 11 no.3: 245-246 S '61. (MIRA 14:9)
(Mesons--Scattering) (Synchrotron) (Magnetic Fields)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

20685
S/120/61/000/001/020/062
E032/E314

26.2244

AUTHORS: Yevseyev, V.S., Komarov, V.I., Kush, V.Z., Roganov, V.S., Chernogorova, V.A. and Shimchak, M.M.

TITLE: A Multilayer Scintillation Detector for the Recording of Neutrons in the Presence of γ-rays

PERIODICAL: Pribory i tekhnika eksperimenta, 1961, No. 1, pp. 68 - 72

TEXT: A description is given of a neutron detector having a high sensitivity to neutrons but a low sensitivity to γ-rays. The detector is designed for the energy range 5-20 MeV. The detector is similar to that reported by Baker and Rubbia (Ref. 4). The multilayer detector is based on the difference between the ranges of protons and electrons of the same energy. The detector consists of a number of thin scintillators, each having a thickness h . The scintillators are separated by opaque partitions. The device is so arranged that scintillations from layers 1, 3, 5, etc. are recorded by one photomultiplier and scintillations from the remaining layers by another. If the energy of an electron is sufficient

Card 1/4

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4

A Multilayer ....

for it to penetrate into a neighbouring layer, then coincident pulses will be produced in the two photomultipliers. The electronic circuitry employed is such that it rejects coincident pulses. Non-coincident pulses arising in either of the photomultipliers are analysed by a kicksorter. In this way, one can separate recoil protons from electrons due to γ-rays. The multilayer detector consists of 28 discs (diameter 80 mm, h = 4 mm). The discs are made from a plastic based on polystyrene with the addition of 2% p-terphenyl + 0.2% αNPO. The neighbouring discs are separated from each other by pieces of black paper, 0.05 mm thick. The detector consists of two identical parts placed in series. In each part, scintillations from "even" discs are collected through perspex light pipes by the corresponding to multipliers, whilst the scintillations from the "odd" discs are collected by two other photomultipliers. In order to prevent the light from the "even" discs from entering the photomultipliers belonging to the "odd" discs (and conversely), the side surfaces of the discs are separated into four equal parts and two (opposite) of these are covered

Card 2/4

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

A Multilayer ....

by an aluminium foil. Altogether, the detector incorporates 8 photomultiplers of the type ФЭУ-1 (FEU-29). Each photomultiplier was placed in a separate magnetic screen made of soft iron. The light guides were not in optical contact with the scintillators, which reduced the amplitude of the pulses but simplified the operation. Pulses from each photomultiplier group were amplified and equalised in amplitude. The maximum amplitude of Co^{60} γ-ray pulses was about 0.01 V. The pulses were then fed into an adding circuit and the pulses from the adding circuit and those from one of the photomultiplier groups were fed into a coincidence circuit and a discriminator, which were so arranged that coincident pulses were rejected while those which were not in coincidence were allowed to pass on into a kicksorter. Detailed tests carried out on this detector have shown that its sensitivity to γ-rays is lower by a factor of 2 and it sensitivity to neutrons is higher by a factor of 2, as compared with the detector reported by Baker and Rubbia in Ref. 4. It is said that this is due to the fact that the thickness of each scintillator in the present instrument is

Card 3/4

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

S/120/61/000/001/020/062
E032/E314

A Multilayer ....

lower by a factor of 1.2 while the total thickness of the device is smaller by a factor of 2.7, as compared with Ref. 4. There are 6 figures and 6 references: 2 Soviet and 4 non-Soviet.

ASSOCIATION: Ob'yedinennyy institut yadernykh issledovaniy (Institute for Nuclear Research)

SUBMITTED: February 5, 1960

Card 4/4

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

YEVSEYEV, V.S.; KOMAROV, V.I.; KUSH, V.Z.; ROGANOV, V.S.; CHERNOGOROVA, V.A.; SHIMCHAK, M.M.

Scintillation laminer detector recording fast neutrons in the presence of gamma quanta. Prib. i tekh. eksp. 6 no.1:68-72 Ja-F '61. (MIRA 14:9)

1. Ob"yedinennyy institut yadernykh issledovaniy.
(Neutrons) (Scintillation counters)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

YEVSEYEV, V.S.; KOMAROV, V.I.; KUSH, V.Z.; ROGANOV, V.S.; CHERNOGOROVA, V.A.; SHIMCHAK, M.M.

Asymmetry of the angular distribution of neutrons emitted in the capture of μ^--mesons in calcium. Zhur.eksp.i teor.fiz. 41 no.1:306-307 Jl '61. (MIRA 14:7)

1. Ob"yedinennyy institut yadernykh issledovaniy.
(Mesons—Capture) (Neutrons—Scattering)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ACCESSION NR: AP3002719

and the photomultiplier are enclosed in a steel casing with foil windows for particle passage. A block diagram of the arrangement is shown in Fig. 1 of the Enclosure. A 260-Mev/sec pulsed meson beam was used in experiment. Resolution time of the coincidence circuits is 5—6 nanosec, and the efficiency of anticoincidence, 99.93%. It was found that the use of the Cerenkov counter makes it possible to reduce the contents of π-mesons in a μ-meson beam by a factor of 10. Orig. art. has: 3 figures.

ASSOCIATION: none

SUBMITTED: 25Jun62 DATE ACQ: 12Jul63 ENCL: 01

SUB CODE: 00 NO REF SOV: 001 OTHER: 001

Card 2/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ACCESSION NR: AP3002719

ENCLOSURE: 01

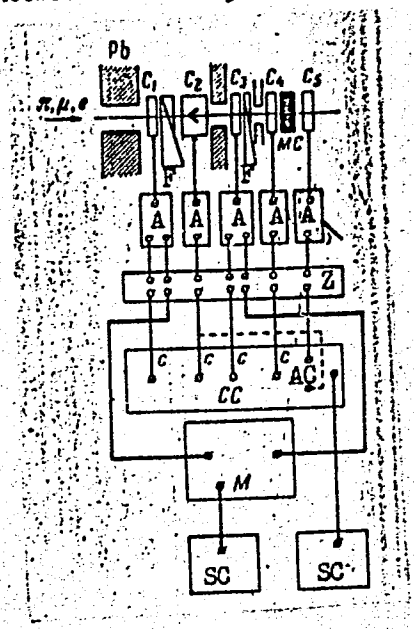


Fig. 1. Location of counters and block diagram of electronic circuit

Pb - 70 x 70 mm lead collimator; C_1 and C_3 - scintillation counters with Φ 100 x 10 mm plastic scintillators; C_4 - Φ 80 x 3 mm; C_5 - Φ 200 x 10 mm; C_2 - Cerenkov counter; F_1 and F_2 - variable thickness filters; Mc - 3 gr/cm² carbon target; A_1 through A_5 - amplifiers with gain of 5; З - variable delay lines; CC - coincidence and anticoincidence circuits; C - coincidence inputs; AC - anticoincidence inputs; M - coincidence monitoring circuit; SC - scaler circuit.

Card 3/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ROGANOV, V.S.

BARANOV, P.S.;GOL'DANSKIY, V.I.; ROGANOV, V.S.

Dosimeters for high-energy neutrons. Prib.i tekh.eksp. no.6:45-49 N-D '57. (MIRA 10:12)

1.Fizicheskiy institut im. P.N. Lebedeva AN SSSR.
(Neutrons--Measurement)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ROGANOV, V.S

BARANOV, P.S.; GOL'DANSKIY, V.I.; ROGANOV, V.S.

Yield and angular distribution of fast photoneutrons from deuterium and carbon. Zhur. eksp. i teor. fiz. 33 no.5:1123-1130 N '57.
(MIRA 11:3)

1. Fizicheskiy institut im. P.N.Lebedeva AN SSSR.
(Photons) (Neutrons)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ROGANOV, V.S.

BARANOV, P. S., GOLDANSKIY, V. I. and ROGANOV, V. S.

"High-Energy Neutron Dosimeter."

paper to be presented at 2nd Un Intl. Conf. on the peaceful uses of Atomic Energy, 1 - 13 Sept 58. Geneva.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

Roganov, V. S.

AUTHORS: Baranov, P. S., Gol'danskiy, V. I., Roganov, V. S. 56-5-7/46

TITLE: The Yield and Angular Distribution of Fast Photoneutrons From Deuterium and Carbon (Vykhod i uglovoye raspredeleniye bystrykh fotoneytronov iz deyteriya i ugleroda)

PERIODICAL: Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, 1957, Vol. 33, Nr 5, pp. 1123-1130 (USSR)

ABSTRACT: The yield of photoneutrons from deuterium and carbon was measured as follows:

E_γ (MeV)	Total yield from D in $\sigma_D \cdot 10^{28} cm^2/Q$	Total yield from C in $\sigma_C \cdot 10^{28} cm^2/Q$	σ_C/σ_D
170	0,84 ± 0,07	7,20 ± 0,25	8,58 ± 0,66
255	2,06 ± 0,06	18,90 ± 1,35	9,18 ± 1,44

The yields were measured by means of an effective scintillation detector for fast neutrons, based upon the reaction $C^{12}(n,2n)C^{11}$ (fast value 20,6 MeV) in the volum. of the liquid scintillator.

In the case of a γ-energy of 225 MeV the angular distribution of the fast neutrons from D changes very intensively since already a considerable yield of photoneutrons from the photo pro-

Card 1/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

YEFFSEYEV, W.I.; KOMAROV, W.I.; KUSCH, W.; ROGANOV, W.S.; TCHERNOGOROVA, W.A.; SZYMCZAK, M.

Asymmetry in the angular distribution of the neutrons emitted in the μ^- meson capture process in calcium. Acta physica Pol 21 no.4:313-327 Ap '62.

1. Joint Institute for Nuclear Research, Laboratory of Nuclear Problems, Dubna.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

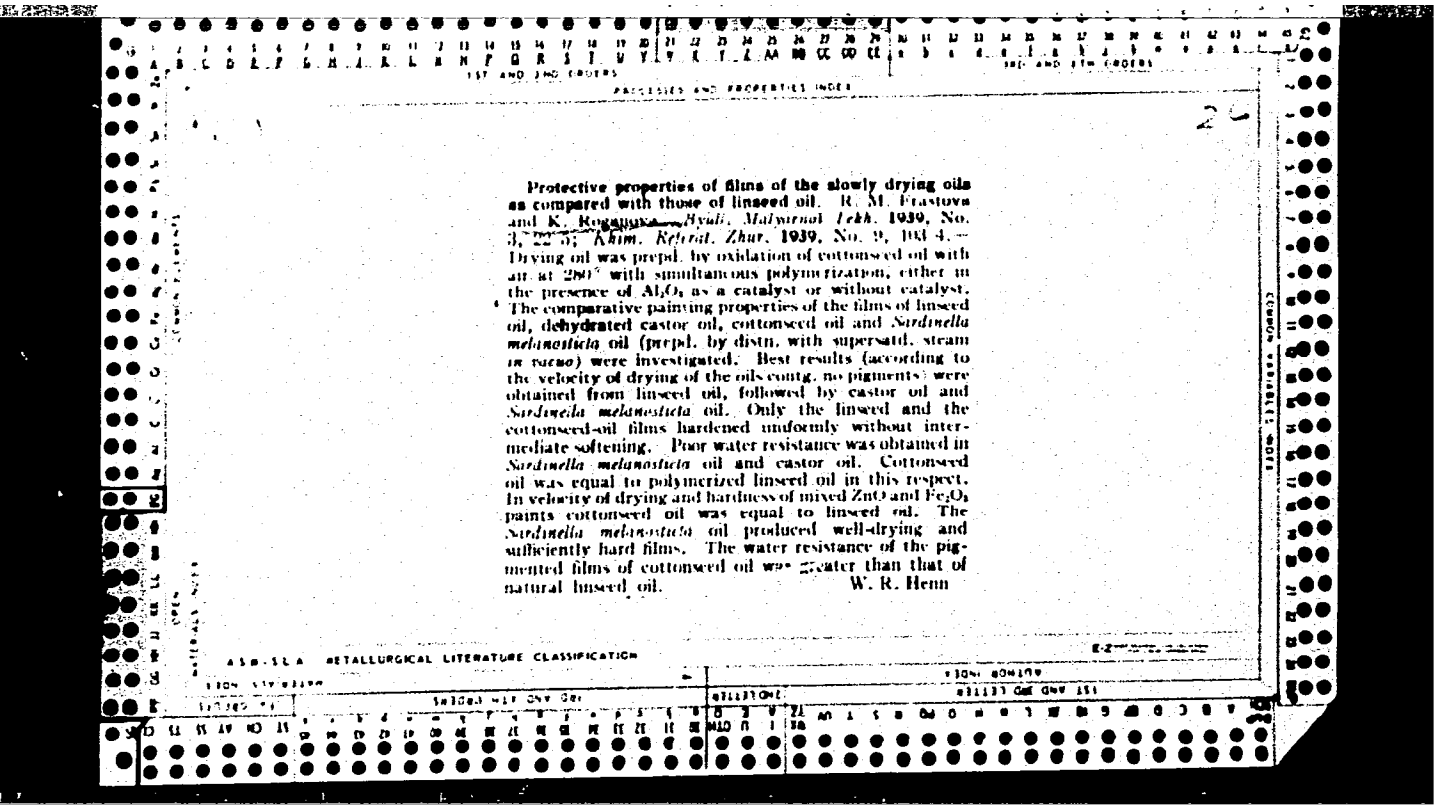
ROGANOVA, A. I.

ROGANOVA, A. I.- "Increasing the Service Life of Parts of Cotton Machinery." Min of Higher Education USSR, Tashkent Inst of Engineers of Irrigation and Mechanization of Agriculture, Tashkent, 1955 (Dissertations For Degree of Candidate of Technical Sciences)

SO: Knizhnaya Letopis' No. 26, June 1955, Moscow

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

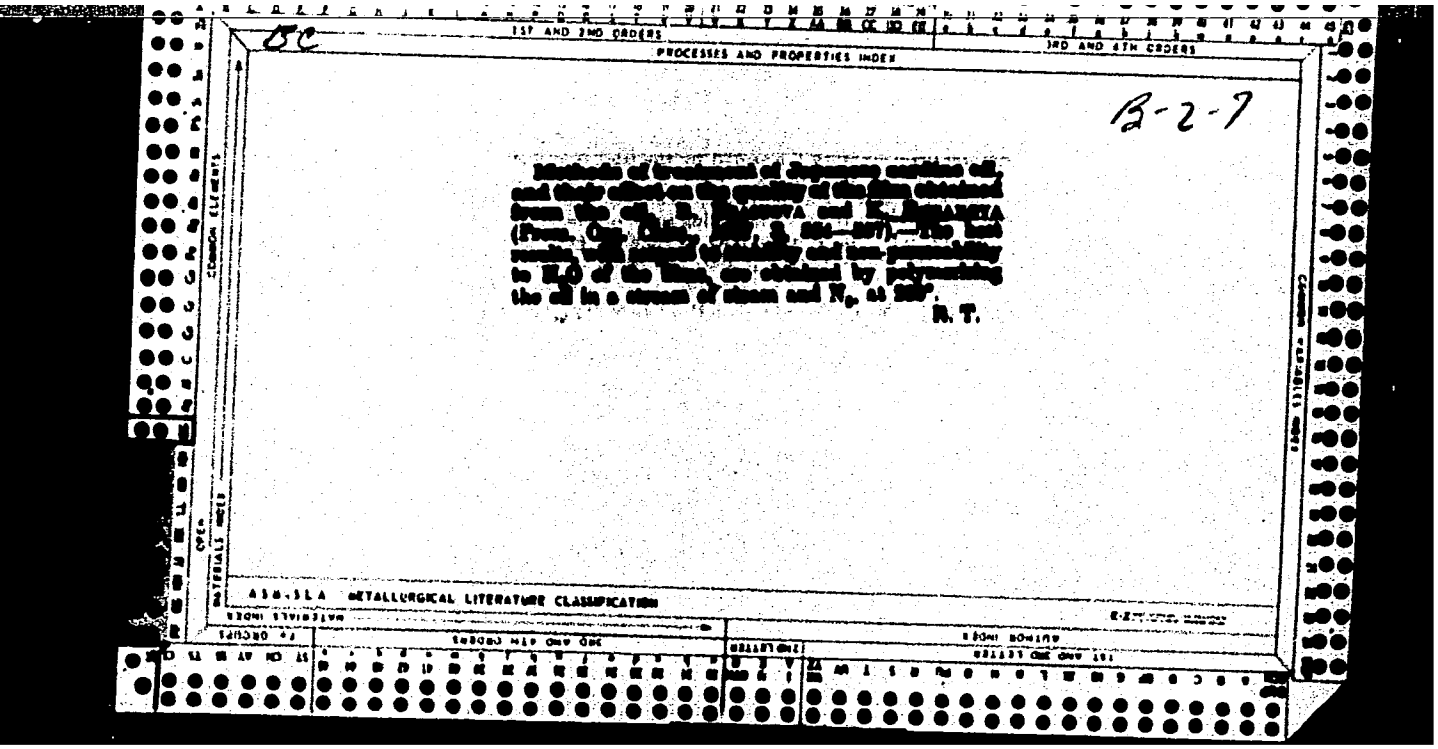


Protective properties of films of the slowly drying oils as compared with those of linseed oil. R. M. Frastova and K. Roganuva. *Byull. Maliarnoi Tekh.* **1939**, No. 3, 22–5; *Khim. Referat. Zhur.* **1939**, No. 9, 103–4.—Drying oil was prepd. by oxidation of cottonseed oil with air at 280° with simultaneous polymerization, either in the presence of Al_2O_3 as a catalyst or without catalyst. The comparative painting properties of the films of linseed oil, dehydrated castor oil, cottonseed oil and *Sardinella melanosticta* oil (prepd. by distn. with superheated steam *in vacuo*) were investigated. Best results (according to the velocity of drying of the oils contg. no pigments) were obtained from linseed oil, followed by castor oil and *Sardinella melanosticta* oil. Only the linseed and the cottonseed-oil films hardened uniformly without intermediate softening. Poor water resistance was obtained in *Sardinella melanosticta* oil and castor oil. Cottonseed oil was equal to polymerized linseed oil in this respect. In velocity of drying and hardness of mixed ZnO and Fe_2O_3 paints cottonseed oil was equal to linseed oil. The *Sardinella melanosticta* oil produced well-drying and sufficiently hard films. The water resistance of the pigmented films of cottonseed oil was greater than that of natural linseed oil.

W. R. Henn

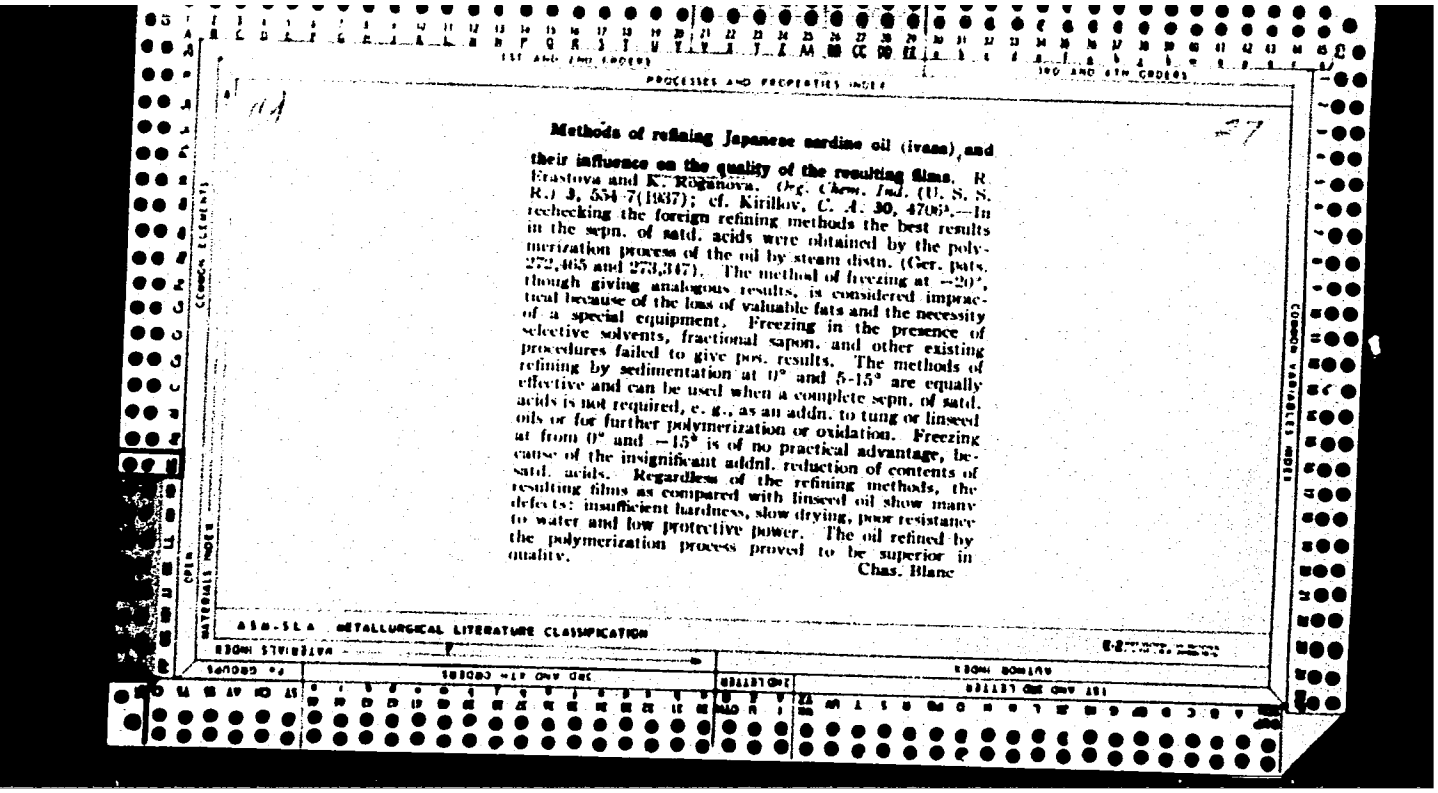
APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445



APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445



PROCESSES AND PROPERTIES INDEX

Methods of refining Japanese sardine oil (iwasa), and their influence on the quality of the resulting films. R. Erastova and K. Röganova. *Org. Chem. Ind.* (U. S. S. R.) **3**, 554-7(1937); cf. Kirillov, *C. A.* **30**, 4706⁹.—In rechecking the foreign refining methods the best results in the sepn. of satd. acids were obtained by the polymerization process of the oil by steam distn. (Ger. pats. 272,405 and 273,347). The method of freezing at −20°, though giving analogous results, is considered impractical because of the loss of valuable fats and the necessity of a special equipment. Freezing in the presence of selective solvents, fractional sapon. and other existing procedures failed to give pos. results. The methods of refining by sedimentation at 0° and 5-15° are equally effective and can be used when a complete sepn. of satd. acids is not required, e. g., as an addn. to tung or linseed oils or for further polymerization or oxidation. Freezing at from 0° and −15° is of no practical advantage, because of the insignificant addnl. reduction of contents of satd. acids. Regardless of the refining methods, the resulting films as compared with linseed oil show many defects: insufficient hardness, slow drying, poor resistance to water and low protective power. The oil refined by the polymerization process proved to be superior in quality.

Chas. Blanc

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ROGANOVA, K.G.

Effect of steroids on specific action of strophanthin. Tr. Vsesoiuz. obsh. fiziol. no. 1:128 1952. (CIML 24:1)

1. Delivered 31 March 1950, Moscow.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

1. ROGANOVA, K. G.

2. USSR (600)

4. Strophanthin

7. Effect of steroids on specific action of strophanthin. Trudy Vses. obshch. fiz. biokhim. i farm. No. 1, 1952

9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

1. ROGANOVA, K. G.

2. USSR (600)

4. Steroids

7. Effect of steroids on specific action of strophanthin. Trudy Vses. obshch. fiz. biokhim. i farm. No. 1, 1952

9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

KOTLYARSKAYA, Ye.I.; ROGANOVA, K.G.

Serologic diagnosis of pregnancy. Akush. i gin. no.1:18-24 '65.
(MIRA 18:10)

1. Endokrinologicheskaya laboratoriya (zav. G.V. Truyevtseva) Nauchno-issledovatel'skogo instituta akusherstva i ginekologii (dir.- prof. O.V. Makeyeva) Ministerstva zdravookhraneniya SSSR, Moskva.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ROGANOVA, K.I.

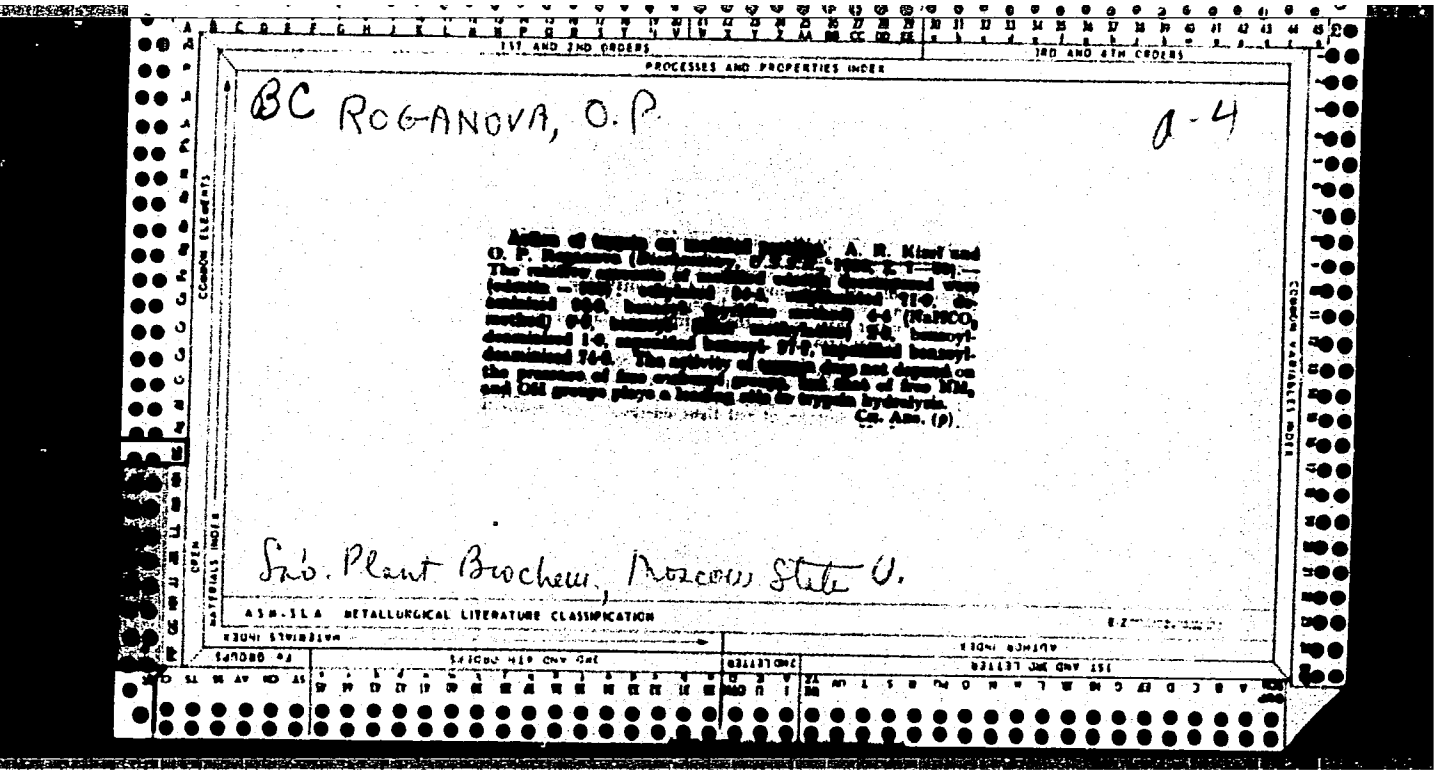
Some data on the physiological importance of the gonadotropic hormones. Akush. i gin. no.6:23-28 N-D '54. (MLRA 8:2)

1. Iz Instituta akusherstva i ginekologii (dir. L.G.Stepanov) nauchnyy rukovoditel'(prof. P.A.Beloshapko) Ministerstva zdravookhraneniya.

(GONADOTROPIN in pregnancy
physiol.)
(PREGNANCY, physiology
effect of gonadotropins)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445



APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

NOVAKOVIĆ, Blagoje.

Soil temperature in Skopje and its significance on cotton growing. Beograd, 1924. 71p. (Srpska akademija nauka, Beograd. Posebna izdanja, knj. 221)

1. Cotton growing - Yugoslavia.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ROGANOVIC, D.

Regional planning and the division of our country in regions as the basic condition for the improvement in the yield of crops. p. 18.

POLJOPRIVREDA. (Drustvo poljoprivrednih inzenjera i tehnicara Srbije)
Beograd, Yugoslavia
Vol. 6, no. 8, Aug. 1958

Monthly list of Eastern European Accession Index (EEAI) LC vol. 8, No. 11
November 1959
Uncl.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ROGASH, A.R.

USSR/Cultivated Plants - Technical. Oleaginous, Sugar-Bearing. L-5

Abs Jour : Ref Zhur - Biologiya, No 16, 25 Aug 1957, 69297

Author : Rogash, A.R.
Inst :
Title : Vegetative Hybridization in Selection of Long-Fiber Flax.

Orig Pub : Agrobiologiya, 1956, No 3, 89-94

Abst : A method of vegetative hybridization of flax and follow-up treatment and choice was established by the flax institute. Geographically distant forms and wild species of flax served as stock, and as the scion-- the best district varieties of long-fiber flax. The best method of grafting for flax is joining organically by direct application. The grafting is made during the period of rapid stock growth and in the phase of cotyledonous leaves of the scion. Repeated grafts were applied with consequent proper treatment of the seed offspring of vegetative hybrids. In testing this method the increase in height

Card 1/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

Abs Jour : Ref Zhur - Biologiya, No 16, 25 Aug 1957, 69297

and technical length of the plant, the crop of fiber and seeds, the increased resistance to rust and fusaria are observed. The prospective selective samples of long-fiber flax were separated.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

USSR / Cultivated Plants. Commercial. Oil Bearing. Sugar Bearing. M-5

Abs Jour: Ref Zhur-Biol., No 6, 1958, 25142

Author : Rogash, A.R.
Inst : Not given
Title : The Development of Selection Work on Flax in the USSR

Orig Pub: Len i konoplya, 1957, No 10, 8-14

Abstract: No abstract.

Card 1/1

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

USSR/Cultivated Plants - Commercial. Oil-Bearing. Sugar-Bearing. M

Abs Jour : Ref Zhur Biol., No 12, 1958, 53709

Author : Rogash, A.R.
Inst :
Title : Selection and Seed Growing of Long Fibered Flax in Belgium and Holland

Orig Pub : Len i konoplya, 1957, No 1, 45-48

Abstract : This article describes the conditions of flax growing, the organization of the selection and seed-growing establishments, and the methods of selection work with regard to long-fibered flax. The article gives the characteristics of the flax varieties suitable for different districts of these countries. Varieties promising as foundation material for selection in USSR are noted in particular. -- D.B. Vakhnistrov

Card 1/1

CATEGORY : Cultivated Plants. Industrial, Oil-Bearing, Sugar-

ABS. JOUR. : RZhBiol., No. 23 1958, No. 104776

AUTHOR : Rogash, A. R.
INST. : All-Union Scientific Research Institute of
TITLE : Development of Soviet Science in the Area of Flax Growing.

ORIG. PUB. : Byul. nauchno-tekhn. inform. Vses. n.-i. in-ta l'na, No.4, 3-6
ABSTRACT : No abstract.

CARD: 1/1

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

KLOCHKOV, V.N., kand. sel'khoz. nauk; MALYKH, P.V., kand. sel'khoz. nauk; ROGASH, A.R., kand. biol. nauk; MONOVA, Ye.S., red.; BELOVA, N.N., tekhn. red.

[Breeding and seed production of fiber flax] Selektsiia i semenovodstvo l'na-dolguntsa. Moskva, Sel'khozizdat, 1963. 189 p. (MIRA 16:9)

(Flax breeding) (Seed production)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ROGASH, A.R., otv. red.; ABRAMOV, N.G., red.; KONDRASHUK, P.K., red.; DUDAREV, Ye.I., kand. sel'khoz. nauk, red.; LEBEDEV, Ya.A., kand. sel'khoz. nauk, red.; LISTVIN, K.S., kand. sel'khoz. nauk, red.; LAPSHINA, O.V., red.

[New facts in fiber plant cultivation; from the transactions of the All-Union Scientific Research Institute on Flax] Novoe v kul'ture l'na-dolguntsa; iz trudov Vsesoiuznogo nauchno-issledovatel'skogo instituta l'na. Moskva, Kolos, 1965. 230 p. (MIRA 18:8)

1. Torzhok. Vsesoyuznyy nauchno-issledovatel'skiy institut l'na.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

YAKOVLEVA, G.D.; YAKOVLEV, O.I.; ROGASHKOVA, A.I.

Doppler effect in nonuniform media. Radiotekh. i elektron. 8 no.3:416-424 Mr '63. (MIRA 16:3)
(Doppler effect) (Electromagnetic waves)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

Excerpta Medica 3/4 sec 16 Apr 55 Cancer

1404. ROGATCHIKOVA T. A. *Carcinoma of the ventricular bands of the larynx and its treatment (Russian text)* Vestn. Oto-rino-laryng. 1954, 2 (29–31)

Of 246 cases operated on for laryngeal carcinoma the ventricular bands have been found affected in 138 cases. Of these the carcinoma was limited to the ventricular bands only in 3 cases. In all other cases other parts of the larynx were involved. Localization of the tumour in the ventricular bands, ventricle and epiglottis is considered more dangerous than in the vocal cords area owing to the abundance of lymphatic vessels and loose connective tissue. Combined treatment with X-rays and surgery is recommended.

Prujansky — Tel-Aviv

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ROGATEL'NIKOV, I.V.

Ways for increasing labor productivity at the Zhdanov By-product Coking Plant. Koks i khim. no.7:67-68 '59. (MIRA 12:10)

1.Zhdanovskiy koksokhimicheskiy zavod.
(Zhdanov--Coke industry--Labor productivity)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

SOV/68-59-7-27/33

AUTHOR: Rogatel'nikov, I.V.

TITLE: Methods of Increasing Labour Productivity at the Zhdanovskiy Coking Works

PERIODICAL: Koks i khimiya, 1959, Nr 7, pp 67 - 68 (USSR)

ABSTRACT: The problem of increasing labour productivity at the works is discussed in general terms.

ASSOCIATION: Zhdanovskiy koksokhimicheskiy zavod (Zhdanovskiy Coking Works)

Card 1/1

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

LEBEDEV, A.P.; ROGATIKOV, O.A.

Plutonic analogies of trachybasalt formations as revealed by the study of the Kizir Massif (Eastern Sayan Mountains). Izv. AN SSSR. Ser. geol. 28 no.10:15-29 O '63. (MIRA 16:11)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR, Moskva.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ROGATIN, N.N., gornyy inzh.

Working zone of a pit. Nauch. trudy Mosk. inst. radioelek. i gor. elektromekh. no.46:74-81 '62. (MIRA 17:1)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

NOVOZHILOV, Mikhail Galaktionovich, prof., doktor tekhn. nauk; SELYANIN, Vitaliy Georgiyevich, kand. tekhn. nauk; TROP, Abram Yefimovich, prof., doktor tekhn. nauk; Prinimal uchastiye GERSHUN, O.S., kand. tekhn. nauk; RZHEVSKIY, V.V., prof., doktor tekhn. nauk, retsenzent; ROGATIN, N.N., inzh., retsenzent; GEYMAN, L.M., red. izd-va; MESHCHANKINA, I.S., tekhn. red.

[Deep open pits]Glubokie kar'ery. Moskva, Gosgortekhizdat, 1962. 275 p. (MIRA 16:1)

(Strip mining)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

32192
S/196/61/000/010/011/037
E194/E155

24.3100 (also 1051, 1106, 1163)
9.2576 (also 1055, 1532)

AUTHORS: Marshak, I.S., Vasil'yev, V.I., Tokhadze, I.L., and Rogatin, N.V.

TITLE: Powerful xenon-tube 'sun' lamps operating without ballast

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.10, 1961, 11, abstract 10V 89. (Svetotekhnika, no.4, 1961, 8-17)

TEXT: It follows from considerations of the physical mechanism of impulse discharges in tubular impulse lamps that this discharge is quasi-stationary, i.e. it can continue indefinitely provided that the current supply is not exhausted and the discharge tube is not thermally overloaded. The discharge channel is of considerable ohmic resistance (some hundreds of ohms), which depends on its geometry and which alters little with the electric stress or specific resistance of the plasma. Because of this resistance the lamps need no ballast, and the potential difference across their electrodes is equal to the supply voltage.
Experimental data about the specific resistance of plasma and

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S/196/61/000/010/011/037
E194/E155

Powerful xenon-tube 'sun' lamps ...

permissible mean power-loading on the quartz tube walls permit of approximate calculation of the length and diameter of discharge tubes in which discharge, like quasi-stationary discharge in impulse lamps, could continue indefinitely (i.e. be quite steady) provided that it receives supply from a steady electrical system without any series ballast resistance. The comparatively high discharge-extinction voltage in narrow-tube impulse lamps governs the minimum internal diameter of the tube and, consequently, the power per unit length in the case of supply from an a.c. system. From data on impulse tubes fed directly from an a.c. system (without storage capacitor) with a current impulse for one quarter of a cycle, it is found that the minimum internal diameter and power mentioned above are respectively 16-20 mm and 95 W/cm. With supply voltages of 380, 220 and 127 V the minimum power of ballastless a.c. lamps and their lengths should be respectively 15, 8.5 and 5 kW and 156, 90 and 52 cm. D.c. impulse lamps should be smaller in diameter and consequently of lower power. These statements were confirmed by an investigation of prototype discharge lamps of various diameters (16-48 mm), lengths

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

32192
Powerful xenon-tube 'sun' lamps ... S/196/61/000/010/011/037
E194/E155

(600-3400 mm) and xenon pressures (15-200 mm Hg) made with various kinds of supply (d.c. and a.c. at various voltages) and cooling conditions (natural and forced water cooling). The investigation also gave a more accurate idea of the value of the power load on the tube walls (for an impulse tube operating for 500-1000 hours) and the specific resistance of plasma (when used under steady conditions of low electrical gradient). On comparing these values of ignition voltage and light output of impulse lamps with those obtained in the work for tubes of various parameters, a technical basis was provided for optimum design of ballastless xenon lamps of 20 kW power for a.c. 380 V supply. The principal characteristics of discharge lamps (compared with 20 kW Osram tubular xenon lamps supplied through a ballast reactor, indicated in brackets) are; current 57 A (75 A); light output 29 lumens per watt (25 lumens per watt); circuit power factor 1 (0.73); overall length 1980 mm (1900 mm); tube diameter 27 mm (30 mm); life over 500 hours (over 500 hours). A small starting device such as a Tesla transformer with appropriate switching suffices to start the lamp instead of the large and heavy starting equipment with reactor (approximate weight; copper 50 kg; steel 150 kg) used for German

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

Powerful xenon-tube 'sun' lamps ...

lamps. The Soviet lamps have metal terminals in quartz (comparatively thin molybdenum foil wound in cylinders) which are easier to make and are more reliable. The principal data for designing similar impulse lamps for other working voltages and powers were determined at the same time. It was found that by increasing the tube diameter and reducing the supply voltage it is possible to increase the light output for a given power (an impulse lamp for 220 V, 16.4 kW has a light output of 33 lumens per watt). By use of water cooling the electrical gradient can be increased, still further increasing the light output (with a gradient of 4 V/cm and internal diameter of 16 mm the light output of the impulse lamp is 38 lumens per watt). Xenon ballastless 'sun' lamps have a mainly continuous almost equal-energy visible spectrum with a weakly expressed maximum at 480 nm (nanometres) which corresponds to a light temperature of 6000 °K.
9 illustrations. 20 literature references.

[Abstractor's note: Complete translation.]

Card 4/4

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ROGATINA, Nina Prokof'yevna; POPOVA, Zinaida Fedorovna; ARTMANIS, Stella Andreyevna; MEL'NIKOVA, Nina Ivanovna; AVDEYEVA Yekaterina Semenovna; KUZNETSOVA, Irina Pavlovna; ZHEREBINA, Anna Semenovna; VOYEVODINA, Aleksandra Dmitriyevna; KOLPAKOVA, Ninel' Yevgrafovna; KHAYEVA, Aleksandra Afanas'yevna; DUNDUKOVA, Valentina Petrovna; LAUSTEN, A.G., nauch. red.; GABOVA, D.M., red.; VINOGRADOVA, G.A., tekhn. red.

[Women's and children's light dress] Zhenskoe i detskoe legkoe plat'e. Moskva, Gostekhizdat, 1962. 493 p. (MIRA 15:7)
(Dressmaking)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

SHAN'KO, G.G.; ROGATINSKAYA, F.A.; SLIVKINA, M.V.

Blood serum protein fractions in rheumatic central nervous system diseases in children. Dokl. AN BSSR 8 no.7:481-483 '64.
(MIRA 17:10)

1. Belorusskiy gosudarstvennyy institut usovershenstvovaniya vrachey. Predstavleno akademikom AN BSSR D.A. Markovym.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

BOLDINA, N.A.; ROGATINSKAYA, F.A.

Changes in the copper level of the blood following treatment of radiculitis with bee venom. Zdrav. Belor. 6 no. 7:28 Je '60. (MIRA 13:8)

1. Iz nevrologicheskogo otdeleniya Minskoy oblastnoy klinicheskoy bol'nitsy (glavnyy vrach G.A. TSoyev) i Nauchno-issledovatel'skogo instituta nevrologii, neyrokhirurgii i fizioterapii (nauchnyy rukovoditel' - akad. ANBSSR D.A. Markov).
(NERVES, SPINAL—DISEASES) (VENOM) (COPPER IN THE BODY)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

LEONOVICH, A.L.; ROGATINSKAYA, F.A.

Study of globulin fractions in the blood serum of multiple sclerosis patients by means of electrophoresis. Zdrav. Belor. 5 no.4:36-38 Ap '59. (MIRA 12:7)

1. Iz Belorusskogo nauchno-issledovatel'skogo instituta nevrologii, neyrokhirurgii i fizioterapii (direktor Ye. F. Kalitovskiy, nauchnyy rukovoditel' - prof. D. A. Markov).
(BLOOD PROTEINS) (MULTIPLE SCLEROSIS)
(ELECTROPHORESIS)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ZAVARITSKAYA, T.A.; Prinimali uchastiye: BELAROVA, N.; TSEKHOVSKAYA, D.; ZEVAKIN, I.; MISHENEVA, Ye.; ROGATKIN, A.

Investigations in the field of titanium tetrachloride purification. Titan i ego splavy no.5:195-200 '61. (MIRA 15:2)
(Titanium chloride)
(Distillation)
(Vapor-liquid equilibrium)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ACC NR: AP6017957 SOURCE CODE: UR/0413/66/000/010/0025/0025

INVENTOR: Lebedev, G. N.; Serebryakova, A. V.; Starshenko, V. I.; Rogatkin, A. A.; Pundrovskiy, V. P.; Khlopkov, L. P.

ORG: None

TITLE: A method for removing phosgene from gases. Class 12, No. 181621

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 10, 1966, 25

TOPIC TAGS: phosgene, gas, filtration

ABSTRACT: This Author's Certificate introduces a method for removing phosgene from gases, particularly from waste gases in the production of titanium tetrachloride. The degree of purification is increased by adding hydrogen to the vapor-gas phase at a temperature below 500°C.

SUB CODE: 07/ SUBM DATE: 19Mar64

Card 1/1 UDC: 66.074.66

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ACC NR: AM6009948 (A) Monograph UR/

Vartanesyan, Vartges Agaronovich; Goykhman, Emmanuil Shlemovich; Rogatkin, Mikhail Ivanovich

Radio direction finding (Radiopelengatsiya), Moscow, Voyenizdat M-va obor. SSSR, 1966, 247 p. illus., biblio. 11,000 copies printed.

TOPIC TAGS. guidance system, radio guidance, radio antenna, radio wave, direction finder receiver sensitivity

PURPOSE AND COVERAGE. This book presents theoretical principles of radio direction finding, principles of operating various types of radio direction finders, as well as problems of practical application of ground devices. Special attention is given to the precision of radio direction finding and sensitivity of the devices depending on the conditions of radio wave propagation and on the scheme determinations of antennae and receiver-indicator systems. The various uses of radio direction finders are shown. This book is recommended as a textbook for preparing for the cadre of radio direction finding in secondary technical education.

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ACC NR: AM6009948

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SUB CODE: 17 SUBM DATE: 08Feb65 ORIG REF: 046 OTH REF: 032

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

BORISOV,A.I., inzhener; NAUMOVA,M.F., inzhener; ROGATKIN,N.S., kandidat tekhnicheskikh nauk; SEMENSKIY,Ye.P., kandidat tekhnicheskikh nauk

Mechanizing the selection and preparation of cut peat samples on a TP type peat loader. Torf.prom.32 no.5:20-21 '55. (MLRA 8:10)

1. Moskovskiy torfyanoy institut
(Peat machinery)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ROGATKIN, N. S.

ROGATKIN, N. S. -- "Investigation of the Processing of a Peat Hydro-mass in a Crusher." Sub 23 Dec 52, Moscow Peat Inst. (Dissertation for the Degree of Candidate in Technical Sciences)

SO: Vecherniaya Moskva, January-December 1952

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ROGATKIN, O.B.

Apparatus for the simultaneous release of the image and magnetic sound track in the making of sound moving-picture films. Tekh. kino i telev. no.6:69-71 Je '58. (MIRA 11:6)

1. Ordena Lenina kinostudiya "Mosfil'm."
(Motion-picture projection)
(Sound--Recording and reproducing)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

LEVIN, A.I., professor, doktor tekhnicheskikh nauk; POMOSOV, A.V.; KOLE-
VATOVA, V.S.; GUREVICH, I.Ye.; UKSHE, Ye.A.; ROGATKINA, N.T.;
MOKRUSHIN, S.G., professor, doktor tekhnicheskikh nauk, retsenzent.

Corrosion and metal cladding. Sbor.st.Ural. politekh.inst. no.43:3-
174 '53. (MLRA 8:1)
(Corrosion and anticorrosives) (Metal cladding)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ROGATKINA, T.N.

*Influence of Ammonium Salts on the Corrosion of Powdered Copper. A. V. Pomosov, T. N. Rogatkina, and A. I. Levin. [Zhur. Prikład. Khim., 1951, 24, (1), 121-122].—[In Russian]. Cf. L. and P., ibid., 1949, 22, 593; M.A., 19, 452. 2·5 g. of 99·92% Cu powder were placed in a beaker inside a jar which also held—in separate beakers—an NH_4 salt and water; the weight of salt taken was that contg. 1 g. NH_4^+. The corrosion of the Cu was determined by measuring the change in weight after 12 hr. at 40° ± 0·5° C. The rates of corrosion (in mg./g./day) of the Cu with various NH_4 salts were: chloride 42·56, bromide 34·03, iodide 34·72, fluoride 17·12, acetate 72·0, nitrate 8·88, carbonate 239·12, sulphate 7·44, and secondary phosphate 11·68. The corrosion rate will be dependent on the thickness of the liq. adsorption layer on the surface of the metal and the amount of vapours and gases dissolved in it; it should therefore be greater for salts of lower thermal stability. The volatility of the acid forming the anion of the salt is therefore the main factor determining its corrosiveness (this is confirmed by comparing corrosivity of the NH_4 salt and b.p. of the acid for a series of acids). The [illegible] among the other factors

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ROGATKINA, T. N.

Corrosion of aluminum cooling coils in cells for electrodeposition of zinc. A. I. Levin, A. V. Pomosov, and T. N. Rogatkina. *Zhur. Priklad. Khim.* 26, 1245–51(1953).—The corrosion of Al cooling coils was investigated under several conditions which are found in cells for the electrodeposition of Zn. At 32° with a standard Zn electrolyte (60Zn + 100H_2SO_4) the presence of 10 mg./l. of Ni^{++}, Fe^{3+}, Co^{3+}, Bi^{3+}, Sb^{3+}, As^{3+}, Pb^{++}, and Cu^{++} increased the corrosion rate of Al wire from 0.19 to 0.94 g./sq.m./hr.; and the anions NO_3^-, Cl^-, and F^- increased it from 0.22, through 1.55, to 2.65 g./sq.m./hr. At 45° the corrosion rate in H_2SO_4, from 100 to 140 g./l., remained const. at about 0.30 g./sq.m./hr. The presence of silicic acid did not affect the corrosion rate but did retard the corrosion effect of F^-: with 10 mg./l. F^- (in 100 g./l. H_2SO_4) the presence of 10 mg./l. silicic acid decreased the corrosion rate from 2.72 to 0.52 g./sq.m./hr.; with 100 mg./l. F^- the rate decreased from 4.50 to about 0.20 in the presence of 10–50 mg./l. silicic acid and to 0.88 with 100 mg./l. The electrode potential of Al in H_2SO_4 and in the standard Zn electrolyte in the presence of 10–4000 mg./l. F^- attained a const. value after 60 min. at −0.550 and −0.765 v., resp. The protective film obtained by chem. means (in CaO + $CaSO_4$) was found frequently harmful; protective films obtained by anodic oxidation, with a c.d. of 2.4 amp./sq. dm., in 20% H_2SO_4, and for 5 min., were effective. Increasing the c.d. and the temp. or a 10% H_2SO_4 decreased the effectiveness. The effectiveness was further increased by treatment of the film in a soln. of $K_2Cr_2O_7$. It is concluded that Al cooling coils are suitable for Zn electrodeposition cells providing Cl^- and F^- are eliminated and the coil is protected by anodic oxidation. The corrosion rate with a film obtained under the best conditions was 0.001, 0.003, and 0.007 g./sq.m., in 30, 120, and 240 min. I. Bencowitz

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

POMOSOV, A. V.; ROGATKINA, T. N.; LEVIN, A. I.

"Influence of Ammonium Salts on the Corrosion of Copper in Powder Form," 1952.

U-1885, 29 April 52

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

137-58-4-6818

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 73 (USSR)

AUTHORS: Levin, A.I., Rogatkina, T.N.

TITLE: The Effects of Surface-tension Reducing Substances in the Electrodeposition of Copper (O deystvii poverkhnostnoaktivnykh veshchetsv pri elektroosazhdenii medi)

PERIODICAL: Tr. Ural'skogo politekhn. in-ta, 1957, Nr 69, pp 34-49

ABSTRACT: The speed with which equilibrium is attained in pure and additive-containing systems consisting of Cu and Cu ions is studied. The presence of surface-tension reducing substances has a pronounced effect on the kinetics of the establishment of equilibrium. The dependence of the potential of the Cu electrode on the time elapsed from the moment it is lowered into the solution is expressed by the equation $\sigma_t = \pm 0.013 \log \tanh \Delta\varphi/2b' + \text{const.}$ Surface-tension reducing substances exercise a significant influence upon the wettability of cathodic Cu. When combinations of additives are employed, the polarizing effect is promoted. Combinations of molecular organic substances and technical organic substances and technical organic high-molecular intermediates in conjunction with anion-active additives yield the best

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137-58-4-6818

The Effects of Surface-tension (cont.)

results. Additives of this type make for dense, fine crystalline Cu deposits.
G.S.

1. Copper--Plating--Surface tension--Reduction--Effects

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ROGATKINA, T. N.

PA 187T12

USSR/Chemistry - Corrosion Jul 51

"The Influence of Ammonium Salts on the Corrosion of Powdered Copper," A. V. Pomosov, T. N. Rogatkina, A. I. Levin

"Zhur Prik Khim" Vol XXIV, No 7, pp 720-722

In corrosion tests on powd copper with NH_4Cl, NH_4Br, NH_4I, NH_4F, NH_4CH_3COO, NH_4NO_3, $(NH_4)_2CO_3$, $(NH_4)_2SO_4$, and $(NH_4)_2HPO_4$, the lowest rate of corrosion was obtained with $(NH_4)_2SO_4$ and the highest with $(NH_4)_2CO_3$. Volatility of the acid forming the anion of the salt is the detg factor for corrosiveness of the salt.

187T12

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

KSENOFONTOV, A.I., dotsent; ROGATKINA, Zh.Ye., inzh.

Using odometers in testing compressibility of sand. Trudy MIIT no.100:3-25 '59. (MIRA 12:6)
(Sand--Testing)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

LEVIN, A.I.; POMOSOV, A.V.; ROGATKINA, T.N.

Corrosion of aluminum coolers in a bath for electrodeposition of zinc. Zhur. prikl.khim. 26 no.12:1245-1251 D '53. (MLRA 6:11)
(Aluminum--Corrosion) (Zinc plating)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ROGATKINA, T.N.

(3) Mat

B. T. R.
Vol. 3 No. 4
Apr. 1954
Electrochemistry and
Electroprocesses

4833* Corrosion of Aluminum Refrigerator Condensers in Bath for the Electrodeposition of Zinc. (Russian.) A. I. Levin, A. V. Pomosov, and T. N. Rogatkina. *Zhurnal Prikladnoi Khimii*, v. 26, no. 12, Dec. 1953, p. 1245-1251.
Studies were made on conditions of electrochemical oxidation of Al to obtain protective films. Tables. 4 ref.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

KSENOFONTOV, A.I., dotsent; ROGATKINA, Zh.Ye., inzh.

Work practices with stability meters. Trudy MIIT no.100:95-102 '59. (MIRA 12:6)

(Soil mechanics)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ROGATNEV, I I.

PA - 2570

AUTHOR VORONIN E.S., ROGATNEV I.I.

TITLE The unstable process in autogenerator with direct excitation by radio impulses. (Nestatsionarnyye protsessy v avtogeneratore, zhestko vozbuzhdayemom radioimpul'sami.- Russian)

PERIODICAL Radiotekhnika 1957, Vol 2, Nr 2, pp 144 - 149 (U.S.S.R.)

Received: 4/1957 Reviewed: 6/1957

ABSTRACT For the purpose of investigation a device was constructed which facilitated studying the adjustment of the amplitude and the phase of self-oscillations for the domain of synchronization as well as for that of pulsation for different working methods of the generator at different amplitudes and with a different duration of the influencing radio impulses.

There follows the description of the device.

Experiment showed that on the occasion of the synchronization of the autogenerator which by the influence exercised by large signals, is in a rigid state of excitation, an optimum state for adjustment of synchronic self-oscillations exists, which cannot be explained without taking the line currents of the lamp into account. Diagrams and a qualitative analysis for finding optimal conditions for the synchronization of the autogenerator by radioimpulses are given on the occasion of the dependence of the latter upon the order of back coupling

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The unstable process in autogenerator with direct excitation by radio impulses.

the amplitude of the exterior electromotoric force and the duration of the radio impulse for the concrete scheme of the autogenerator. (8 ill. and 7 citations from Slav publications.)

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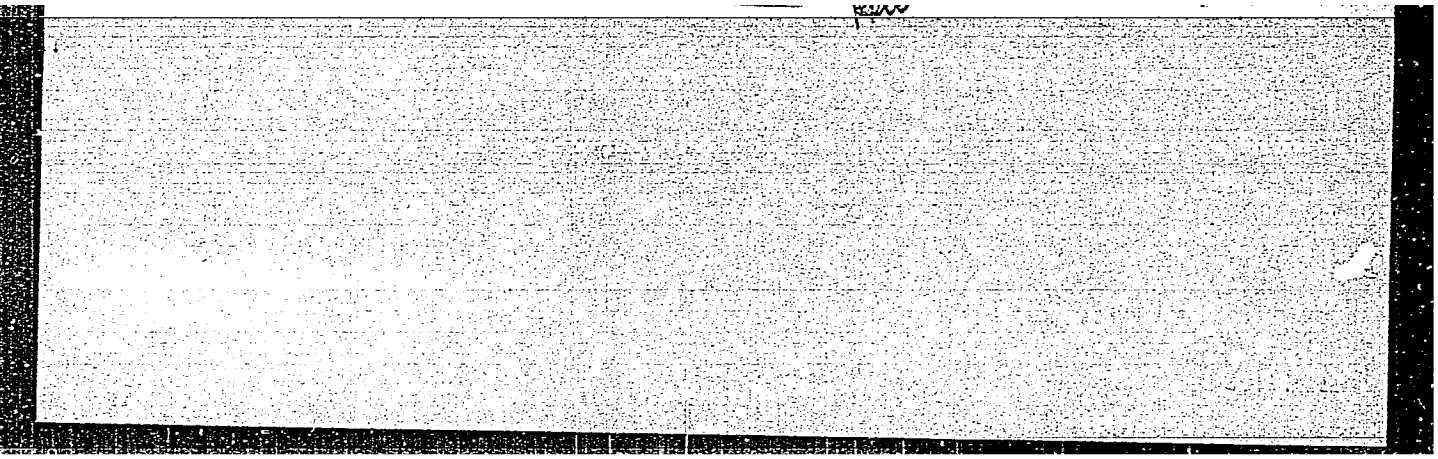

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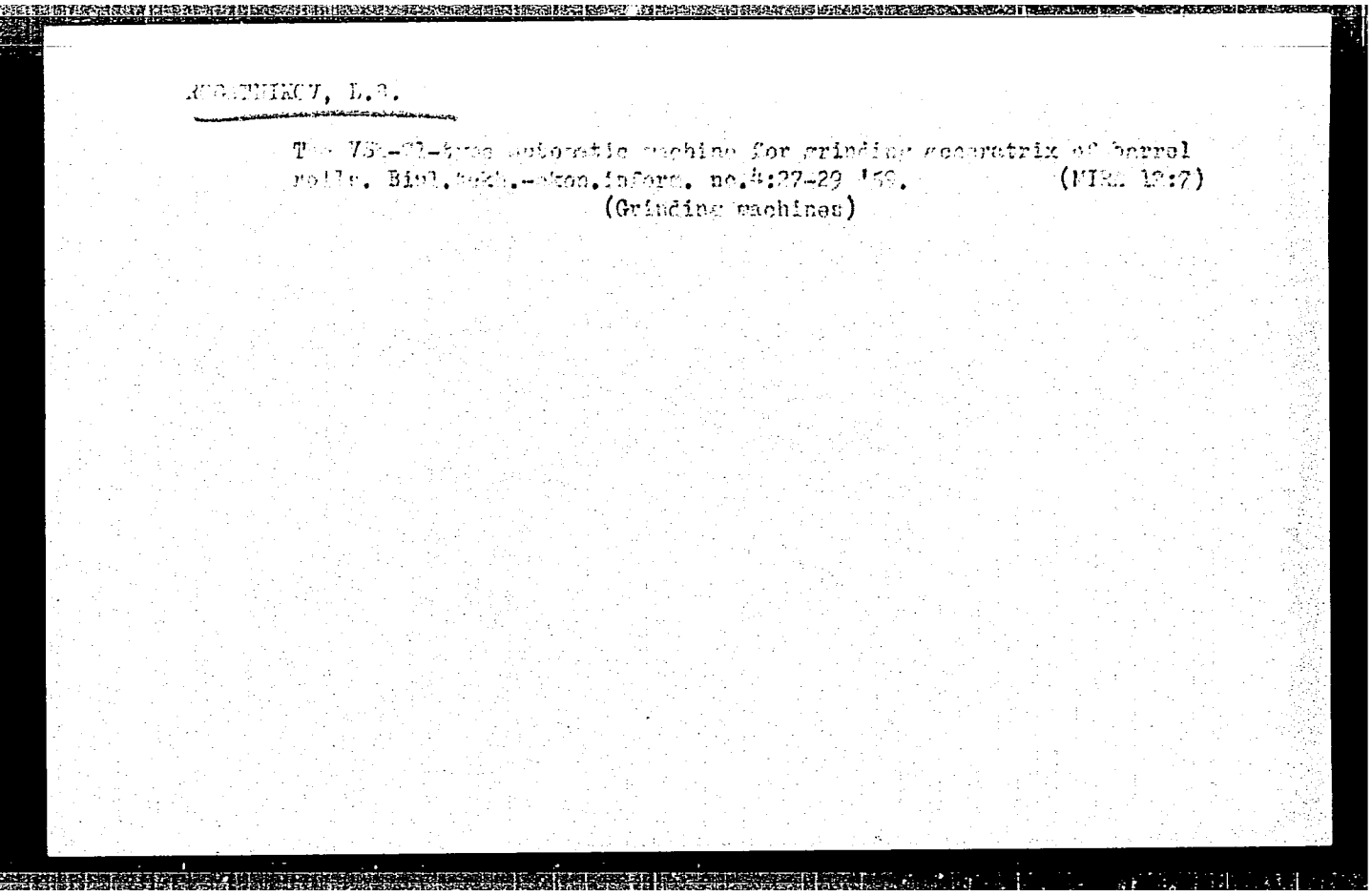

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